

KALNINS, A. ; STREIPA, P.

Perfecting the methods of resin and tar distillation in the Minsk and analogous-type retorts. p. 65.

BIOLOGICHESKAJA NAUKA; SELSKOMU I LESNOMU KHOZIAISTVU. (Latvijas PSR Zinatnu akademijs. Biologijas Zinatnu nodala) Riga, Latvia, No. 16, 1958. In Russian.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.
Unclassified.

KALNINS, A.

Changes in the structure of assortments in pine-tree stands depending on their age. p. 157.

LATVIJAS PSR ZINATNU AKADEMIJA. VESTIS. RIGA, LATVIA. No. 7, 1959

Monthly List of East European Accessions. (EEAI) LC, Vol. 9, no. 2, Feb. 1960 Uncl.

Kalnins, A.

Effect of soil conditons and vegetation on spreading clover nodule
bacteria: p.3

Latvijas PSR Zinatnu akademijs. Mikrobiologijas instituts. TRUDY.
Riga, Latvia. No.8, 1959

Monthly List of East European Accessions (EEAI) LC, Vol.8, no.11
November 1959
Uncl.

KALNINS, Arv.; SURNA, J.

Possibilities of increasing the output of furfurole in wood
pyrolysis. Vestis Latv ak no.11:107-113 '59. (EEAI 9:11)

1. Latvijas PSR Zinatnu akademijs, Mezsaimniecibas problemu
un koksnes kimijas instituts.
(Furaldehyde) (Pyrolysis) (Wood)

KALNIN'SH, A.I. [Kalnins, A.], akademik, red.; GILIER, S.A., akademik, red.;
SHIMANSKAYA, M.V., kand. khim. nauk, red.; DYMARSKAYA, O., red.;
PILADZE, E., tekhn. red.

[Resources of pentosan-containing raw material in the U.S.S.R.]
Resursy pentozansoderzhashchego syr'ia v SSSR. Riga, Izd-vo Akad.
nauk Latviskoi SSR, 1960. 161 p. (MIRA 14:12)

1. Vsesoyuznyy uchenyy soviet po probleme ispol'zovaniya pentozansoderzhashchego syr'ia. 2. Akademiya nauk Latvyskoy SSR (for Kalnin'sh, Giller).

(Pentosans)

KALVIN'SH, A. [Kalnins, A.]

Achievements of Soviet Latvian chemists in twenty years. In Russian.
Vestis Latv ak no.7:49-62 '60. (EEAI 10:7)
(Latvia--Chemistry)

KALNIN'SH, A. [Kalnins, A.]

Recommendation for wood protection. Vestis Latv ak no.8:175-179
'60. (EEAI 10:9)

(Wood)

KALNIN'SH, A. [Kalnins, A.]; KUNDZIN'SH, A. [Kundzins, A.]

Science of the forest economy to the national economy. In Russian.
Vestis Latv ak no.7:219-227 '60. (EEAI 10:7)
(Latvia--Forests and forestry)

BRAKSS, N.; (Riga); ALKSNE, L.; ABOLINS, J.; KALNINS, A. /.

Humic acids of sapropels and peat as adhesives in utilization of wood waste. Vestis Latv ak no.10:101-106 '60.

(EEAI 10:9:10)

1. Latvijas PSR Zinatnu akademijs, Mezsaimniecibas problemu un kokenes kimijas instituts.

(Sapropels) (Peat) (Humic acids) (Adhesives)

VASIL'YEV, P.V., prof., doktor ekon. nauk; PONOMAREV, A.D.; SOLDATOV, A.G., kand. sel'khoz. nauk; MOTOVILOV, G.P., doktor sel'khoz. nauk; NEVZOROV, N.V., kand. ekon. nauk; LOSITSKIY, K.B., kand. sel'khoz. nauk; HODIONOV, A.Ya., kand. sel'khoz. nauk; CHARKINA, A.P., kand. sel'khoz. nauk; LUTSEVICH, A.A., kand. sel'khoz. nauk; KOZHEVNIKOV, M.G., dots.; ALEKSEYEV, P.V., kand. sel'khoz. nauk; ZORIN, A.V., aspirant; BARANOV, N.I., kand. sel'khoz. nauk [deceased]; NAUMENKO, I.M., prof., doktor sel'khoz. nauk; IL'IN, A.I., kand. sel'khoz. nauk; MOISEYENKO, F.P., kand. biol. nauk; ZAKHAROV, V.K., prof., doktor sel'khoz. nauk; GECHIS, Yu.P., starshiy nauchnyy sotr.; BUTENAS, Yu.P., kand. sel'khoz. nauk; HUBLIS, K.A., aspirant; KALININ'SH, A.Ya., kand. sel'khoz. nauk; ZVIYEDRIS, A.I., kand. sel'khoz. nauk; SUKACHEV, V.N., akad. red.; ZHUKOV, A.B., prof., red.; PRAVDIN, L.F., prof., red.; MAKAROVA, L.V., red. izd-va; LOBANKOVA, R.Ye., tekhn. red.

[Problems of increasing forest productivity in four volumes] Problemy povysheniia produktivnosti lesov v chetyrekh tomakh. Moskva, Goslesbumizdat. Vol.4. [Economic problems of increasing forest productivity and accelerating ripening and cutting ages] Ekonomicheskie voprosy povysheniia produktivnosti lesov, vozrasty spelosti i vozrasty rubok. 1961. 253 p. (MIRA 15:1)

1. Akademiya nauk SSSR. Institut lesa. 2. Nachal'nik Glavnoy inspeksii po lesnomu khozyaystvu i polezashchitnomu lesorazvedeniyu Ministerstva sel'skogo khozyaystva SSSR (for Ponomarev).

(Forests and forestry—Economic aspects)

BELYAKOV, G.; ERMUSH, N. [Ermusa, N.]; KALNIN'SH, A. [Kalnins, A.]

Possibilities for the utilization of hydrophobic sand ~~treated~~ with wood tar. Vestis latv ak no.3:85-90 '61.

1. Institut lesokhozyaystvennykh problem i khimii drevesiny AN Latviyskoy SSR.

KALNIN'SH, A. [Kalnins, A.]

Seventieth birthday of Academician Petr Nikitich Odintsov. Vestis
latv ak no.3:117-122 '61.

KALNIN'SH, A.[Kalnins, A.]; ZANDERSON, Ya.[Zandersons, J.]

Resin content in the sapwood of turpented pine trees. Vestis Latv
ak no.6:143-152 '61.

1. Akademiya nauk Latvyskoy SSR, Institut lesokhozyaystvennykh problem
i khimii drevesiny.

(Gums and resins) (Pine)

KALNIN'SH, A. [Kalnins, A.]

New problems in the Chemistry and Geology Section of the Academy of
Sciences of the Latvian S.S.R. Vestis Latv ak no.7:127-128 '61.

(Latvia—Chemical research)

(Latvia—Geological research)

KALNINS, A.

KALNYN'SH, A. [Kalnins, A.]; ZVIYEDRIS, A. [Zviedris, A.]

Prospects of forestry development in the Latvian S.S.R. Vestis Latv ak
no.8:117-120 '61.

1. Akademiya nauk Latvyskoy SSR, Institut lesokhozyaystvennykh problem
i khimii drevisiny.

ODINTSOV, P.N.; KALNIN'SH, A.I. [Kalnins, A.]; KAL'NINA, V.K.; CHEPIGO, S.V.;
SHNAYDER, Ye.Ye.; SHPUNTOVA, M.Ye.

Hydrolysis of plant materials by concentrated sulfuric acid.
Gidroliz. i lesokhim.prom. 14 no.3:1-4 '61. (MIRA 14:4)

1. Institut lesokhozyaystvennykh problem i khimii drevesiny Akademii
nauk Latvyskoy SSR (for Odintsov, Kalnin'sh, Kal'nina). 2. Nauchno-
issledovatel'skiy institut gidroliznoy i sul'fitno spirtovoy
promyshlennosti (for Chepigo, Shnayder and Shpuntova).
(Hydrolysis) (Wood-Chemistry)

GOLOVA, O.P.; EPSHTEYN, Ya.V.; SERGEYEVA, V.N.; KALNIN'SH, A.I. [Kalnins, A.];
ODINTSOV, P.N.; MAKSIMENKO, N.S.; PANASYUK, V.G.; Prinimali
uchastiye: MERLIS, N.M.; DURININA, L.I.; BISENIYETSE, S.K. [Biseniece, S.];
GUNDARS, A.Yu.; FEDORCHENKO, R.I.; MINAKOVA, V.I.

New method for the complete chemical processing of plant tissues..
Gidroliz. i lesokhim. prom. 14 no.7:4-8 '61. (MIRA 14:11)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR (for Golova, Epshteyn, Merlis, Durinina).
2. Institut lesokhozyaystvennykh problem i khimii drevesiny AN Latvyskoy SSR (for Sergeyeva, Kalnin'sh, Odintsov, Bisenietse, Gundars).
3. Krasnodarskiy gidroliznyy zavod (for Maksimenko, Fedorchenko, Minakova).
4. Dnepropetrovskiy sel'skokhozyaystvennyy institut (for Panasyuk).

(Plant cells and tissues)
(Botanical chemistry)

KALNIN'SH, A.I. [Kalnins, A.]; RASIN'SH, P.P. [Rasins, P.]

Two-storied pine tapping with the application of sulfuric acid in
the lower story. *Gidroliz. i lesokhim. prom.* 14 no.7:19 '61.
(MIRA 14:11)

1. Institut lesokhozyaystvennykh problem i khimii Grevesiny AN
Latviyskoy SSR.

(Turpentine)
(Sulfuric acid)

SERGEYEVA, Varvara Nikolayevna; DOMBURG, Galina Eduardovna;
KALNIN'SH, A.I. [Kalnins, A.I.], akademik, red.; DYMARSKAYA, O.,
red.; LEMBERGA, A., tekhn, red.

[Formation of furfurole and methods for its production] Obra-
zovanie furfurola i metody ego polucheniia. Pod red. A.I. Kal-
nin'sha. Riga, Izd-vo Akad. nauk Latviiskoi SSR, 1962. 83 p.
(MIRA 15:9)

1. Akademiya nauk Latviyskoy SSR (for Kalnin'sh).
(Furaldehyde)

KALNIN'SH, Arvid Yanovich [Kalnins, Arvids], akademik; GORSHIN, S. N.,
retsensent; BARAKS, A. M., red.; GOSPODARSKAYA, T. N., red.
izd-va; GRECHISHCHEVA, V. I., tekhn. red.

[Preservation of wood] Konservirovanie drevesiny. Moskva, Gos-
lesbuisdat, 1962. 143 p. (MIRA 16:3)

1. Starshiy nauchnyy sotrudnik TSentral'nogo nauchno-issledova-
tel'skogo instituta mekhanicheskoy obrabotki dereva (for Gorshin).
(Wood--Preservation)

KALNIN'SH, A. [Kalnins, A.]

Changes in the stand structure of pine forests under the effect of drainage. Vestis Latv ak SSR no.8:113-116 '62.

1. Institut lesokhozyaystvennykh problem i khimii drevesiny AN Latvyskoy SSR.

GOLOVA, O.P.; EPSHTEYN, Ya.V.; SERGEYEVA, V.N.; KALNIN'SH, A.I. [Kalnins, A.];
ODINTSOV, P.N.; MAKSIMENKO, N.S.; PANASYUK, V.G.

Outlook for a new method of complete processing of plant materials.
Gidroliz.i lesokhim.prom. 15 no.3:12-15 '62. (MIRA 15:5)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR (for Golova, Epshteyn).
 2. Institut lesokhozyaystvennykh problem i khimii drevesiny AN Latvyskoy SSR (for Sergeyeva, Kalnin'sh, Odintsov).
 3. Krasnodarskiy gidroliznyy zavod (for Maksimenko).
 4. Dnepropetrovskiy sel'skokhozyaystvennyy institut (for Panasyuk).
- (Wood—Chemistry) (Hydrolysis) (Plant cells and tissues)

BEYNART, I.I.; KALNIN'SH, A.I. [Kalnins, A.]

Wood hydrolysis by means of small amounts of concentrated sulfuric acid in the presence of organic liquid. Gidroliz.i lesokhim.prom. 15 no.6:3-5 '62. (MIRA 15:9)

1. Institut lesokhozyaystvennykh problem i khimii drevesiny AN Latvyskoy SSR.

(Latvia—Wood—Chemistry)

KALNINS, A., prof.

A new method of hydrolysis by using concentrated sulfuric acid. Drevo 17 no.5:146-147 My '62.

1. Institut lesochozjajstvennych problem i chimii drevesiny Akademii nauk Latvijskoj SSR.

KALININ'SH, A.I. [Kalnins, A.] akademik; ODINTSOV, P.N., akademik

Chemistry of wood pulp. Vest. AN SSSR 32 no.2:57-61 F '62.
(MIRA 15:2)

1. AN Latviyskoy SSR (for Kalnin'sh, Odintsov).
(Woodpulp)

KALNIN'SH, A.I. [Kalnins, A.]; RASIN'SH, P.P. [Rasins, P.]

Importance of the location for the application of sulfuric acid on the streak surface. *Gidroliz. i lesokhim.prom.* 16 no.1:25 '63.
(MIRA 16:2)

1. Institut lesokhozyaystvennykh problem i khimii drevesiny AN Latvyskoy SSR.

(Turpentine)

TULYAKOV, B.V.; KALNIN'SH, A.I. [Kalnins, A.]; ROMANOVSKIY, G.G.; RASIN'SH, P.P.
[Rasins, P.]

Urgent tasks of the technological progress in pine tapping. Gidroliz.
i lesokhim.prom. 16 no.8:1-3 '63. (MIRA 17:1).

KALNIN'SH, A.I. [Kalnins, A.], akademik

Plasticized cellulose. Vest. AN SSSR 34 no.5:79-85
My '64. (MIRA 17:6)

1. AN Latviyskoy SSR.

KALNIN'SH, A.I. [Kalnina, A.], prof., akademik

Competitor of metals; plasticized wood. Priroda 53
no.9:76-80 '64.

(MIRA 17:10)

1. AN Latviyskoy SSR, Riga.

KALNIN'SH, A.I. [Kalnins, A.]; DARZIN'SH, T.A. [Darzins, T.];
BERZIN'SH, G.V. [Berzins, G.]

Plasticization of wood by preliminary treatment with
ammonia. Der. prom. 13 no.5:11-13 My '64.

(MIRA 17:6)

KALNIN'SH, A.I. [Kalnins, A.], akademik

Interesting book on wood chemistry. Gidroliz. i lesokhim. prom.
17 no.3:30 '64. (MIRA 17:9)

1. AN Latvyskoy SSR.

KALNIN'SH, A.I. [Kalnins, A.]; RASIN'SH, P.P. [Rasins, P.] [deceased];
- TSAKARS, E.Ya. [Cakars, E.]

Ten-year pine tapping with the use of diluted sulfuric acid.
Gidroliz. i lesokhim. prom. 17 no.7:17-19 '64.

(MIRA 17:11)

ACC NR: AP6009867

(A)

SOURCE CODE: UR/0413/66/000/004/0065/0065

INVENTOR: Kalnin'sh, A. I.; Rakin, A. G.; Berzin'sh, G. V.; Sheydin, I. A.;
Darzin'sh, I. A.; Muzhits, V. I.; Doronin, Yu. G.; Ziyemelis, A. E.; Churina, Ye. A.

ORG: none

TITLE: Preparation of wood plastics. Class 38, No. 178971 [announced by the
Institute of Wood Chemistry AN LatSSR (Institut khimii drevesiny AN Latviyskoy SSR)
and Central Scientific-Research Institute of Plywood (Tsentral'nyy nauchno-issledovatel'skiy institut fanery)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 65

TOPIC TAGS: plywood, wood chemistry, wood plastic, *forest product*

ABSTRACT: An Author Certificate has been issued describing a method of preparing wood plastics. To improve the physical and mechanical properties of the end product and lower the amount of binder for making wood plastic from veneer sheets or ground wood, the latter are treated, prior to pressing, with a 25-percent solution of ammonia for 4 hr at 18--20C. The treated sheets are combined with untreated sheets during pressing.

[LD]

SUB CODE: 11/ SUBM DATE: 25Jan65

Cord 1/1 vlr

UDC: 674.812.2

~~KALININ~~ SH, E. [Kalnins, E.]; ANSHELEVICH, Yu.

Experience in using bicillin-3 in the therapeutic clinic. In
Russian. Vest's Latv ak no.4:183-184 '60. (EEAI 10:7)
(BICILLIN)

KITSH, Yu.S.; LYALINOV, K.S.; KALININ, K.K.

Photochemical reaction in the solid layer of polyvinyl alcohol.
Zhur. fiz. khim. 59 no.8:1886-1989 Ag '65. (MIRA 1849)

Leningradskiy institut khimicheskoy fiziki i institut vysokomolekulyarnykh soyedineniy.

KALNIN'SH, K.K.; BELEN'KIY, B.G.

Dissociation of tetracyclines studied by means of infrared spectroscopy. Dokl. AN SSSR 157 no.3:619-621 J1 '64.

(MIRA 17:7)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR. Predstavleno akademikom M.M. Shemyakinym.

KALNIN'SH, K.K.; MOSKVICHEV, B.V.; DMITRENKO, L.V.; BELEN'KIY, B.G.; SAMSONOV,
G.V.

Infrared spectra of amino acids in a sorbed state. Izv. AN SSSR.
Ser.khim. no.10:1897-1899 '65. (MIRA 18:10)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

REYZIN'SH, R.E. [Reizinš, R.E.], inzh.; KALNIN'SH, L.R. [Kalniņš, L.R.], inzh.

Effect of fractional beating on the quality of woodpulp. Bum.prom.
34 no.3:16-18 Mr '59. (MIRA 12:4)

(Woodpulp)

KAL'NINSH, M.

KAL'NINSH, M., inzh. [Kalinin, M.]

Some problems in producing clay tiles. Stroi. mat. 4 no. 7:17-19
Jl '58. (MIRA 11:7)

(Tiles, Roofing)

KAININS, M.

Kimija lauksaimnieciba; metodiski noradijumi kimijas un biologijas skolotajiem.
Riga, Latvijas valsts izdevnieciba, 1956. 110 p. (Chemistry in agriculture;
methodological directions for teachers of chemistry and biology)

DA

Not in DLC

SO: Monthly Index of East European Accession (EMAI) LC. Vol. 7, No. 5, 1958

EIDUKS, Julijs; KALVINS, Martins; MACEJEVSKA, E., red.; AIZUPIETE, M.,
tekh. red.

[Minerals of the Latvian S.S.R. and their use] Latvijas PSR
derigie izrakteņi un to izmantosana. Riga, Latvijas Valsts
izdevnieciba, 1961. 430 p. (MIRA 15:3)
(Latvia--Mines and mineral resources)

ABRLE, E., nauchnyy sotrudnik; KAL'NYN'SH, O. [Kalinin, O.], nauchnyy sotrudnik

Fertilize hothouse crops correctly. Nauka i pered.op.v sel'khoz.
9 no.1:61 Ja '59. (MIRA 13:3)

1. Latviyskiy nauchno-issledovatel'skiy institut zemledeliya.
(Fertilizers and manures) (Greenhouse management)

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																										SUBSTRATE INDEX																									
<p>KALNINS, P.</p> <p>Polymerization and pyrolytic decomposition of phenylacetic anhydride. I. Cyclobutane-α-diene. P. KALNINS. <i>Acta Univ. Latviensis Kim. Fakulst. Serija</i> 1, No. 13-7, 455-67, 458 (1963) (in German).—In the prepn. and fractionation of (PhCH₂CO)₂O there is formed by decomposition, a red substance, probably diphenylcyclobutane-α-diene, while PhCH₂CO₂H distills over. This results by the unsym. polymerization of the anhydride, with the splitting off of 2 mols. PhCH₂CO₂H. The intermediate product of the polymerization is colorless and easily changed into the red diketone. The latter with H₂O₂ undergoes a red. rearrangement, similar to the benzilid rearrangement, the product being PhCH₂CH(Ph)COCOPh. This is 1 of the few examples of unsym. polymerization, most of the polymerizations yielding sym. compds. The study is being extended to other anhydrides.</p> <p>C. J. Wheat</p>																																																			
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KALNIN, P.																										INT AND EXT. ORDER																									
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<p> Mercuration of "acetone anil." P. KALNIN (Latv.) Univ. Raski, 1936, 3, 315-320.—The condensation product of COMe_2 and NH_2Ph yields a Hg derivative containing 63-47% Hg, probably $\text{C}_{15}\text{H}_{12}\text{NHg}(\text{OAc})_2$ (one OAc group being in a special position). This is reduced by H_3PO_3 to a base with an odour of quinoline. A. I. I. </p>																																																			
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Oxidation of furan to maleic anhydride by atmospheric oxygen in vapor-gas phase over a catalyst from oxides of cerium, Pr, Kallina, B. Hillers, and M. Tarvid. *Lehtjas P.S. J. Chem. Soc. Faraday Trans. 2* 1951, 413-52. — Passage of air-furan mixts. through a glass tube over V_2O_5 -pumice catalyst gave the following conversions to maleic anhydride. The best results are had with 8 sec. contact and a molar ratio of air to furan of 120-180 at 325°, when an 81-3% yield is secured (83-4% taking into account unreacted furan). It is suggested that the reaction proceeds by formation of the 2,5-di-HO deriv., which yields the 2,5-oxo deriv. or suffers ring cleavage with formation of $HO_2CCH_2CH_2CHO$, which yields a lactone. Over a pure V_2O_5 catalyst some 27% furan is oxidized to CO_2 - H_2O and only 13% yields maleic anhydride; when the catalyst is fully "developed" with use and consists largely of V_2O_5 , some 46% conversion to maleic anhydride occurs. The high yields cited above result from a catalyst consisting of both V_2O_5 and V_2O_4 . G. M. K.

my

KALININ P.

Catalytic oxidation of furfural in vapor gas phase with air oxygen. M. Lavola, S. Filley, and P. Kalinik. *Laboratory of Chemical Technology, 1952, 20, 477-483, No. 6*. 37, 38, 39. Numerous types of V-bearing catalysts, with and without support, were investigated for their activity in catalyzing the oxidation of furfural vapor to maleic acid with air at atm. pressures and 200-375°. Typical catalysts were: V₂O₅ (II) on pumice, V₂O₅ on Al₂O₃ per 100 ml of the carrier, 5.5 I and 10.3 TiO₂ on pumice, 11.5 I, 5.0 MoO₃, 0.85 Co₂O₃ on pumice, 21 Ag₂O on pumice, 5.7 I, 1.0 MoO₃, 1.1 P₂O₅, 0.4 Fe₂O₃ on pumice, 10.3 I, 5.6 MoO₃, 1.0 Bi₂O₃, 1.8 TiO₂ on Al₂O₃ or pumice. The catalysts were prepared on the catalyst from a thin suspension by a slow evapn. of the corresponding salt, oxide, and carrier mixt., with or without help of surficial organic binders. The catalysts were slowly dried at 100° in air stream, followed by a gradual increase to 300° within 12 hrs., and holding at 320° for 12 hrs. The final activation was achieved by heating for 48 hrs. at 370° in a rapid air stream. One-pass conversions of 75-80% were obtained with the best mixed oxide catalyst, with no decrease in activity for 100 hrs. The air-furfural molar ratios were 100:1 to 4000:1, and the contact times 0.75-2 sec. The best catalyst was II, and the optimal conditions: air-furfural molar ratio 1800:1 to 2000:1, temp. 270°, contact time 1.5 sec.; 87% of furfural was oxidized, yielding 83% maleic acid. Andrew Dravnieks.

MA
Jew

USSR.

Condensation of 1,1-dichloroethane with acetone in presence
of alkaline catalysts. The structure of the condensation
products. P. Kalina. *Letsjins PSR Zindiga Akad.*
Vestn 1959, No. 9 (Whole No. 86), 129-30 (in Russian).--In
with Me₂CO at room

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KALNINSH R.

Method of measurement of complex magnetic permeability of ferrite J. R. Kalnins. *Latvian PSR Zinātnu Akad. Vēstis* 1960, No. 1, 77-9. — The effect of losses in the coil on the measurement of a toroidal sample were detd. Because the magnetic circuit is closed the magnetic losses are detd. and poor-quality coils can be used. The error of conventional Q-meters (5%) facilitates the choice of coil. A. Libickij

2

KALNINS, T.

Study of magnetic beta spectrometer model with constant magnets. In Russian. p. 49.

LATVIAS PSR ZINATNU AKADEMIJA. VESTIS. RIGA, LATVIA. No. 7, 1959

Monthly List of East European Accessions. (EEAI) LC, Vol. 9, no. 2, Feb. 1960 Uncl.

KUKAIN, R. [Kukaine, R.]; INDULEN, M. [Indulēna, M.]; KANEL', I. [Kanele, I.];
KONDRASHOVA, M.; KALNINYA, B. [Kalnina, V.]; VOLRAT, A. [Volrate, A.];
FELDMAN, G. [Feldmane, G.]; NAGAYEVA, L.; PAVLOVA, M.; POPOVA, V.

Characteristics of the tuberculin tests in children inoculated
during early infancy with peroral BCG vaccine and live poliomyelitis
vaccine. Vestis Latv ak no.7:115-117 '62.

1. Institut mikrobiologii AN Latvyskoy SSR.

KALNINYA E

LATVIA/Organic Chemistry - Natural Compounds and Their
Synthetic Analogs.

G.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 54148

Author : Villere G., Grinshteins V., Kalninya E.

Inst : Latv. University.

Title : Investigation of Usnic Acid and Its Derivatives.

Orig Pub : Uch. Zap. Latv. un-t, 1957, 14, 63-78.

Abstract : The isolation of (+)-Usnic acid (I) was made from the
Usnea Ramalina and the Gladonia varieties of lichens;
the concentration of I in Usnea hirta is as high as
3.8%. Usnamide (II), m. p. 251°C. (from acetic acid),
was prepared by boiling I with ammonium hydroxide in
a mixture of alcohol and benzene, or acetic acid plus
sodium acetate. When I is heated at 80°C. for thirty
minutes, or at 20°C. for thirty minutes to forty-eight

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LATVIA/Organic Chemistry • Natural Compounds and Their
Synthetic Analogs.

G.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 54148

hours with liquid ammonia, there is formed a mixture of products which probably are II and the diamide of I, $C_{18}H_{18}O_5N_2$ (III). The condensation of I with diphenyl

hydrazine in alcohol (boiled for 2.5 hours) probably resulted in the formation of bis-diphenyl hydrazone of I, $C_{42}H_{36}O_5N_4$; this material does not melt at 250°C.

It was not possible to prepare the corresponding amines by the reduction of the above compound (or the reduction of II, or the oxime of I).

When alcoholic solutions of nitrogen-containing compounds are boiled with I, condensation products are obtained (given are: the starting material, the composition of of the reaction product, and its melting point in °C);

Card 2/4

SVIREZHEV, M.V.; KALINITS, V.V.

Allarthroplasty of the knee joint following tuberculous gonitis;
preliminary report. Ortop., travm. i protez. no.9:40-44 '62.
(MIRA 17:11)

1. Iz Novosibirskogo instituta tuberkulez (dir. - zaslužennyy
vrach RSFSR kand. med. nauk M.V. Svirezhev).

KAL'NITS, V.V.

Experimental data on the use of penopolyvinylformal in alloarthroplasty
in tuberculous lesions of the joints. Eksper. khir. i anest. 9 no.1:57-
59 Ja-F '64. (MIRA 17:12)

1. Novosibirskiy nauchno-issledovatel'skiy institut tuberkuleza (dir. -
zasluzhennyy vrach RSFSR kand. med. nauk M.V.Sverezhev).

STEPANOVA, O.S.; TISHCHENKO, O.I.; DROZDOVSKAYA, A.I.; KAL'NITSKAYA, E.A.;
PANCHUK, T.D.; YATSENKO, Ye.A.

Synthesis of some α -halo ethers. Zhur. V KHO 8 no.5:598-
599 '63. (MIRA 17:1)

1. Odesskiy gosudarstvennyy universitet imeni Mechnikova,

KOGAN, A.A., prof.; KAL'NITSKAYA, F.Ye.; IZAMSHAYEVA, A.I.;
LEVINA, L.M., red.; ISHAY, N.A., tekhn. red.

[Emergency aid in obstetrics] Neotlozhnaia pomoshch' v
akusherstve; posobie dlia akusherok. Tashkent, Medgiz,
UzSSR, 1962. 119 p. (OBSTETRICS) (MIRA 16:7)

1. KALNITSKIY, A. A.
2. USSR (600)
4. Concrete - Testing
7. Problem of methodology in determining the durability of concrete. Stroi.prom.
30 no. 12 1952

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

KAL'NITSKIY, A.A. (Moskva)

Designing girders taking into account plastic deformations. Stroi.
mekh. 1 rasch. soor. 3 no.1:24-25 '61. (MIRA 14:2)
(Girders) (Strains and stresses)

VAYNBERG, G.D., inzh.; YEVTIKHIN, V.F., kand. tekhn. nauk; KAZAKOV,
I.V., inzh.; KAL'NITSKIY, A.A., kand. tekhn. nauk; NIKOLAYEV,
N.A., kand. tekhn. nauk, nauchn. red.

[Asbestos cement elements in rural construction for residen-
tial, cultural, and industrial buildings] Asbestotsementnye
konstruktsii v sel'skom stroitel'stve dlia zhilykh, kul'turno-
bytovykh i proizvodstvennykh zdani. [By] G.D.Vainberg i dr.
Moskva, Stroiizdat, 1965. 63 p. (MIRA 18:3)

KAZAKOV, I.V., inzh.; KAL'NITSKIY, A.A., kand.tekhn.nauk

Use of asbestos cement articles in construction. Stroi. mat. 7
no.9:14-17 S '61. (MIRA 14:11)

(Asbestos cement)

KAL'NITSKIY, A.A., kand.tekhn.nauk; KROL', I.S., inzh.

Coefficients of homogeneity of asbestos cement. Trudy
NIIAsbestsmenta no.14:63-70 '62.

(MIRA 16:9)

KAL'NITSKIY, A. I.

V. A. Alikseyev, author of Zoogigiyena s osnovami veterinarii ("Animal Hygiene and Principles of Veterinary Medicine"). Adapted for local conditions and supplemented by A. I. KAL'NITSKIY. Kishinev, Moldavgiz, 1951. 88 pages (Ministry of Agriculture of the Moldavian SSR. Main Administration of Agricultural Propaganda). Price 2 rubles. 15,000 copies. In the Moldavian and Kazakh languages. (from: NEW BOOKS ON VETERINARY MEDICINE Veterinariya, No. 11, pp. 63,64, Nov. 1951, Moscow, Russian no per.)

SO: [REDACTED] Report U-4502; 28 August 1953. [REDACTED].

KAL'NITSKIY, A. I.

Veterinary Medicine

Chimishliia veterinary section. Sots. zhiv. 14 no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 195², Uncl.

KALINITSKIY, B.P.

The MK-53KB special purpose semiautomatic multicut lathe.
Biul.tekh.-ekon.inform. no.7:23-25 '60. (MIRA 13:7)
(Lathes)

84-58-6-41/59

AUTHOR: Kal'itakiy, I. (Nikolayev)

TITLE: Airmen Help Schoolboys (Aviarabotniki pomagayut shkol'-nikam)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 6, p 33 (USSR)

ABSTRACT: The short note reports the establishment of an "aero-club" at the Nikolayev "Pioneer Palace". The club has two Yak-18 training planes, a BRO-11 glider and a sectional M-11 engine for instruction. The instructors are the local airport specialists. A photograph accompanies the text.

1. Civil aviation--USSR 2. Personnel--Training

Card 1/1

KALNICKIJ, J.B. [Kal'nitskiy, I.B.], doc., kandidat technicheskikh ved;
PELNAR, Antonin, inzh., dr. [translator]

Conditions and elements of automation in ore mines.
Rudy 10 no.8:251-253 Ag '62.

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy
nizhelevoy promyshlennosti (for Kalnickij).

KAL'NITSKIY, L. (g.Kiyev); VITVITSKAYA, Z. (g.Kiyev)

An electric checking device for a swift. Prom.koop. 13 no.5:9
My '59. (MIRA 12:9)

1. Glavnyy inzhener arteli "Kiyevtrikotazh" (for Kal'nitskiy).
2. Nachal'nik otдела tekhnicheskogo kontrolya arteli "Kiyevtrikotazh".

(Textile machinery)

CHELNOKOV, I.I., doktor tekhn.nauk, prof.; KAL'NITSKIY, L.A., kand.
tekhn.nauk, dotsent

Forced vibrations of the system "wheel pair load on a spring
assembly with bilinear elastic characteristics." Sbor.trud.
LIIZHT no.183:55-68 '62. (MIRA 16:2)
(Car springs—Vibration)

КАЛИНИН, Л.А., канд. техн. наук, доцент

Vibrations of the body of two-axle cars with conical springs
in the vertical-longitudinal plane of symmetry. Sber. trud.
ИЗВЕСТИЯ no.215:110-127 '64. (MIRA 17:12)

KAL'NITSKIY, L.A.; VOL'PE, L., red.

[Higher mathematics; differential calculus of functions
of one and several variables] Vysshaya matematika; dif-
ferentsial'noe ischislenie funktsii odnoi i neskol'kikh
peremennykh. Leningrad, Severo-Zapadnyi zaachnyi politekhn.
in-t. 1965. 74 p. (MIRA 18:11)

ABRAMKIN, Roman Pavlovich; KAL'NITSKIY, R.Ya. [Kal'nyts'kyi, R.IA.],
red.; LIMANOVA, M.I. [Lymanova, M.I.], tekhn.red.

[Cooperative collective-farm construction; from the experience
of the Novaya Vodolaga Cooperative Construction Organization]
Mizhkolhospne budivnytstvo; z dosvidu Novovodolaz'koho mizh-
kolhospbudu. Kharkiv, Kharkivs'ke knyzhkove vyd-vo, 1960.
35 p. (MIRA 14:4)

1. Nachal'nik soveta Novovodolaz'skogo meshkolkhosstroya (for
Abramkin).

(Novaya Vodolaga District--Construction industry)

KAL'NITSKIY, L. B.

7680. KAL'NITSKIY, L. B. --Besprovolochnyy greben' dlya obrazovaniya pervogo petel'nogo ryada izdeliy na ploskofangovykh mashinakh. M., MOIZ, 1954. 5 S. S. chert. 21 sm. (tsentr. sovet promysl. kooperatsii SSSR, Tekhn. upr. Obmen proizvod-tekhn-opytom. Inform. listok. 697.500 ekz. bespl.-avt. ykazan v kontse teksta.-- (55-347 zh)

677.661.05

SO: Knizhnaya Letopis', Vol. 7, 1955

3461 KAL'NITSKIY, L. B.

Tsepnoy stezhok dlya otdelki izdel'siy verkhnego trikotazha. M.,
KOIZ 1954. 5s vkiyuch. obl., s ill 21 s m. (Tsentr. sovet promysl.
koope atsii SSSR. tekhn. upr. obmen proizvod-tekhn. opytom. inform.
listok. 53) 500 ekz Bespl. avt. ukazan v kontse teksta. (54-14383 zh)
677.661.027

KAL'NITSKIY, L.B., inzhener

Comments on the article "Wider utilization of the possibilities of
knitting machines." Leg.prom.14 no.2:38-39 F '54. (MIRA 7:5)
(Knitting machines) (Maksimov, IU.A.)

KALINITSKIY, L.B., inzhener.

Substituting twisted cotton yarn for thread. Leg.prom. 14 no.8:
21 Ag '54. (MIRA 7:8)
(Yarn)

KAL'NITSKIY, L.B., inahenor

The relation between yarn number and the type of flat cardigan
stitch knitting machine used. Leg. prom. 15 no.6:21-23 Je '55.
(Knitting machines) (MLRA 8:8)

KAL'NITSKIY, L.B., inzhener.

~~Systematically erroneous approach.~~

Systematically erroneous approach. Leg.prom. 15 no.12:23-24

D '55.

(MLRA 9:5)

(Knit goods industry)

KAL'NITSKIY, L. (Kiyev).

Scissors cutting by electric power. Prom. koop. 12 no.3:9 Mr '58.
(MIRA 11:3)

1. Artel' "Kiyevtrikotazh".
(Scissors and shears)

KAL'NITSKIY, L.B.

Discussing again the flat purl knitting machines. Tekst.prom.22
no.3:75-77 Mr '62. (MIRA 15:3)

1. Glavnyy inzh.eksperimental'noy fabriki Kiyevskogo Doma modeley
trikotazhnykh izdeliy.

(Knitting machines)

KAL'NITSKIY, L.B.; YELEN, A.I.

New methodology for setting the norms of raw materials in the manufacture of knit outerwear garments. Tekst, prom. 23 no.12:48 D '63. (MIRA 17:1)

1. Glavnyy inzh. eksperimental'noy fabрики Kiyevskogo Doma modeley trikotazhnykh izdeliy (for Kal'nitskiy). 2. Nachal'-nik proizvodstvennogo otdela eksperimental'noy fabрики Kiyevskogo Doma modeley trikotazhnykh izdeliy (for Yelen).

KAL'NITSKIY, L.B. [Kal'nyts'kyi, L.B.]

Manufacture of fancy knit fabrics on the interlock knitting
machine. Leh.prom. no.1:12-15 Ja-Mr '64.

(MIRA 19:1)

KAL'NITSKIY, L.B.

Review of S.Kh.Simin and M.S.Mirkin's book "Multisystem circular
interlock knitting machines." Tekst.prom. 25 no.2:78-80 F '65.
(MIRA 18:4)

1. Glavnyy inzh. eksperimental'noy fabriki Kiyevskogo doma
modeley.

KAL'NITSKIY, I.B. [Kal'nyts'kiy, I.B.]

Manufacture of "cover" type tuck-figured fabrics on the inter-
lock knitting machine. Leh. prom. no.3:23-26 J1-S '65. (MIRA 18:9.

KAL'ITSKIY, L.B.

Some causes of stripe in knitted fabrics manufactured on flat
fang type knitting machines. Tekst. prom. 25 no. 5:41-44 Nr 165.

(MIRA 18-5)

1. Nachal'nik proizvodstvennogo studia respublikanskogo doma
modeley trikotazhnykh izdeliy Gruzinskogo Soveta narodnogo
khozyaystva.

KAL'NITSKIY, L.I.; YELIN, A.I., starshiy nauchnyy sotrudnik

Effect of the magnitude of the shed of a flat latch-needle knitting machine on the indices of double-rib cloth. Tekst. prom. 25 no.5:43-47 My '65. (MIRA 18:5)

1. Nachal'nik sektora poshiva trikotazha Ukrainского nauchno-issledovatel'skogo instituta (for Kal'nitskiy). 2. Sektor poshiva trikotazha Ukrainского nauchno-issledovatel'skogo instituta (for Yelen).

KAL'NITSKIY, M.G.

Intratracheal nitrous oxide anesthesia in surgical gynecology.
Akush. i gin. no.2:44-47'63. (MIRA 16:10)

1. Iz akushersko-ginekologicheskoy kliniki lechebnogo fakul'-
teta (zav. - prof. A.M.Poy) Saratovskogo meditsinskogo insti-
tuta.

(GYNECOLOGY, OPERATIVE) (NITROUS OXIDE)
(INTRATRACHEAL ANESTHESIA)

KAL'NITSKIY N. F.

127-58-1-22/28

AUTHORS: Volkov, K.D.; Grudin, B.M., and Kal'nitskiy, N.F., Engineers

TITLE: Drifting. Scraper- Hopper-Train (Prokhodcheskiy skrepernyy poyezd-bunker)

PERIODICAL: Gornyy Zhurnal, 1958, Nr 1, pp 72-74 (USSR)

ABSTRACT: A drifting, scraper hopper-train was designed, manufactured and applied for drifting a cross in the Belousovo mine early in 1957. This hopper-train of the PSPB-1 type consists of individual car sections installed on the carriages of VOK-80 cars, a loading car, and an unloading car, shown in Figures 2, 3 and 4. When the train is being composed, individual sections enter into each other forming thereby a continuous trough-hopper. A scraper winch is installed on a separate carriage and it moves a 0.15 m³ scraper with which the rock is transported from the loading machine into the hopper-train. The technical characteristics of the hopper-train are as follows: the capacity is 25 cu m; the efficiency in loading is 30 cu m/hr and in unloading is 40 cu m/hr; the length is 31,000 m, the width is 1,200 mm and the height is 1,700 mm. The experience of using the PSPB-1 justifies

Card 1/2

Drifting, Scraper- Hopper-Train

127-58-1-22/28

the conclusion that 100 or 150 m per month can become the average speed of drifting horizontal workings.
The article contains 4 figures and 1 photo.

ASSOCIATION: Belousovskoye rudoupravleniye, Vostochno-Kazakhstanskaya oblast'
(Belousovka Mine Administration, East-Kazakhstan Oblast')

AVAILABLE: Library of Congress

1. Cargo vehicles-Mines 2. Mines-Equipment 3. Ores-Transportation

Card 2/2

Kal'itskiy, N.N.

USSR/Chemical Technology - Chemical Products and Their
Application. Electrochemical Manufacturing. Electro-
deposition. Chemical Sources of Electrical Current.

H-6

Abs Jour : Referat Zhur - Khimiya, No 1, 1958, 1950

Author : Kal'itskiy N.N.

Inst : Scientific Students Society of the L'vov Commercial-
Economic Institute.

Title : New Electric Gas-Coulometer and the Prospects of Its
Utilization.

Orig Pub : Zap. nauchn. stud. o-va. L'vovsk. trgovo-ekon. in-t,
1957, No 1, 60-63

Abstract : Due to the use of shunted current the measurement range
of the gas coulometer, proposed by N.S. Krugov and based
on electrolysis of a 15% NaOH solution in a cell with
Ni-electrodes, can be considerably expanded.

Card 1/1

S/078/63/008/002/006/012
B101/B186

AUTHORS: Belyayev, I. N., Smolyaninov, N. P., Kal'nitskiy, N. R.

TITLE: Investigation of the system Bi_2O_3 - TiO_2 - PbO

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 8, no. 2, 1963, 384 - 388

TEXT: The binary system Bi_2O_3 - TiO_2 was investigated with the aid of the fusibility method up to a content of 30 mole% TiO_2 . A new congruently melting compound, $\text{Bi}_{24}\text{TiO}_{38}$, m.p. 844°C , was found, which crystallizes in a cubic body-centered lattice ($a = 9.05 \pm 0.02$ kX). Mixed with 2.5 mole% TiO_2 it forms a eutectic with the m.p. at 797°C and containing 10.0 mole% TiO_2 it forms a eutectic having the m.p. at 821°C . Additionally, through X-ray analysis, the compounds $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ and $\text{Bi}_2\text{Ti}_3\text{O}_9$ were found. From dilatometric and thermographic investigations it followed that $\text{Bi}_2\text{Ti}_3\text{O}_9$ undergoes a phase transition between 180 and 260°C . In the ternary system Bi_2O_3 - TiO_2 - PbO the crystallization regions of the phases Bi_2O_3 ,

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Investigation of the system...

S/078/63/008/002/006/012
B101/B186

$\text{Bi}_{24}\text{TiO}_{38}$, $\text{Bi}_6\text{Pb}_2\text{O}_{11}$, Pb_2TiO_4 and PbO were determined. For the four ternary points the following compositions were found in mole%:

	Bi_2O_3	TiO_2	PbO	m.p., °C
E_1	63.5	0.5	36.0	680
E_2	29.5	1.0	69.5	599
P_1	70.0	8.0	22.0	775
P_2	49.0	2.0	49.0	608

Dilatometrical, thermographical and X-ray analysis of the cross sections of $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ - PbTiO_3 and $\text{Bi}_2\text{Ti}_3\text{O}_9$ - PbTiO_3 proved the formation of $\text{Bi}_4\text{PbTi}_4\text{O}_{15}$ and of the new compound $\text{Bi}_2\text{PbTi}_4\text{O}_{12}$. The similarity between the powder patterns of $\text{Bi}_2\text{PbTi}_4\text{O}_{12}$ and those of $\text{Bi}_4\text{Ti}_3\text{O}_{12}$. $\text{Bi}_4\text{PbTi}_4\text{O}_{15}$ and $\text{Bi}_2\text{SrTi}_4\text{O}_{12}$ lead to the conclusion that $\text{Bi}_2\text{PbTi}_4\text{O}_{12}$ too may be regarded as a ferro-electric material with laminated structure. There are 5 figures and 4 tables.

Card 2/3

Investigation of the system...

S/078/63/008/002/006/012
B101/B186

The most important English-language reference is: E. C. Subbarao, J. Chem. Phys., 34, 695 (1961).

SUBMITTED: May 22, 1962

Card 3/3

BELYAYEV, I.N.; SMOLYANINOV, N.P.; KAL'NITSKIY, N.R.

Investigation of the system $\text{Bi}_2\text{O}_3 - \text{TiO}_2 - \text{PbO}$. Zhur.neorg.khim.
8 no.2:384-388 F '63. (MIRA 16:5)
(Bismuth oxides) (Titanium oxides) (Lead oxides)

KAL'NITSKIY, P. I., (Chief Veterinary Surgeon, Strashnensk Raion, Moldavian SSR)

In the struggle for keeping young cattle in good health

Veterinariya vol. 38, no. 10, October 1961, pp 30

KAL'NITSKIY, P.I.

Keeping young cattle in good health. Veterinariia 38 no.10:
30-32 0 '61. (MIRA 16:2)

1. Glavnyy veterinarnyy vrach Strashenskogo rayona, Moldavskoy
SSR,

(Strasheny District—Veterinary medicine)

STURMAN, A.V., veter. vrach (Strashenskiy rayon, Moldavskaya SSR); BULGAKOV, Yu.N., veter. fel'dsher (Strashenskiy rayon, Moldavskaya SSR); KAL'NITSKIY, P.I., veter. vrach (Strashenskiy rayon, Moldavskaya SSR); OCHAKOVSKIY, Z.M., veter. vrach (Strashenskiy rayon, Moldavskaya SSR); GOTSENOGA, A.D. (Strashenskiy rayon, Moldavskoy SSR); ABRAMYAN, G.I., veter. vrach; MEKHTIYEV, M.G., veter. fel'dsher (s. Shirozlu, Vedinskogo rayona Armyanskoy SSR); KIRAKOSYAN, A.A., veter. vrach; GEORGIYEV, Yu.P., veter. vrach; LOMAKIN, A.M., nauchnyy sotrudnik; SHEPELEV, L.A., veter. vrach; TARASOV, I.I., assistant; ROMASHKIN, V.M., veter. tekhnik; ANDRIYAN, Ye.A.; BARTENEV, V.S.; KOROL', Ye.I., veter. tekhnik; YEROSHENKO, A.K., aspirant; BANZEN, Ya.P.; SARAYKIN, I.M., prof.; ZHEVAGIN, A.N., veter. vrach; BUT'YANOV, D.D., veter. vrach (Klimovichskiy rayon, Mogilevskoy oblasti BSSR); SHALYGIN, B.V., veter. vrach (Klimovichskiy rayon, Mogilevskoy oblasti, BSSR); RYABOKON, G.T., veter. fel'dsher; MOVSUMZADE, K.K., prof.; DUGIN, G.L., aspirant; TITOV, G.I., nauchnyy sotrudnik; MEDVEDEV, I.G., veter. vrach.; ALIKAYEV, V.A.; ALLENOV, O.A., veter. vrach.

Prophylaxis and treatment of noninfectious diseases in calves and piglets. Veterinariia 40 no.2:40-47 F '63. (MIRA 17:2)

1. Ul'yanovskaya oblastnaya veterinarno-bakteriologicheskaya laboratoriya (for Sturman). 2. Kolkhoz imeni Kirova. Volokonovskogo
(Continued on next card)

KAL'NITSKIY, P.I.

We are improving the veterinary and zootechnical service
on swine raising farms. Veterinariia 42 no.9:8-10 S '65.

(MIRA 18:11)

1. Glavnyy veterinarnyy vrach Novoanenskogo rayona Moldav-
skoy SSR.

KAL'NITSKIY, P. T.

KAL'NITSKIY, P. T.

Sudan Grass

Concentrated sowing of Sudan grass for hay. Korm. baza 3 No. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, July 1952, UNCLASSIFIED.

10.7300

S/250/62/006/002/005/007
1028/1228

AUTHOR: Severdenko, V. P. and Kal'nitskiy, R. M.
TITLE: On the problem of determination of a plasticity criterion
PERIODICAL: Akademiya nauk Belaruskay SSR. Doklady, v. 6, no. 2, 1962, 97-99

TEXT: There being no generally accepted plasticity indicator at the present time, the authors define a criterion of plasticity e_{pe} , that characterizes the capacity of irreversible deformation without destruction of metals and, or alloys. In a deformed body, part of the macrovolumes are subjected to extension stresses, others — to compression stresses. The destruction occurring earlier in the former, the criterion is defined for the case of extension. A transition leads to a linear scheme for the stressed state, and the following expression is obtained for the plasticity criterion:

$$e_{pe} = e_e + \frac{\sigma_e' - \sigma_{oe}}{\sigma_n} \quad (2)$$

where e_{pe} = criterion of plasticity, corresponding to the value of the actual deformation which would be obtained in a monoaxial extension, e_e = limiting actual deformation on extension, σ_{oe} = actual rupture stress reduced to the linear scheme, σ_n = actual stress at the beginning of concentrated stress, σ_e' = actual rupture stress at monoaxial extension. Formulas are then established, on the basis of equations of the mecha-

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